

ABSTRACT OF THE DISCLOSURE

The method of manufacturing rare earth thick film magnet comprising a step of forming an alloy layer of 30 - 100 μm thick having a general formula $\text{R}_x\text{B}_y\text{TM}_z$ on a substrate by a physical deposition process, and a step of heat-treating the alloy layer to form a thick film magnetic layer having $\text{R}_2\text{TM}_{14}\text{B}$ phase as a main phase. In the general formula, R is at least one of rare earth elements, B is boron, TM is iron or its alloy partly substituted by cobalt. X is 0.1 - 0.2, Y is 0.05 - 0.2 and $Z = 1 - X - Y$. Further, the method of the present invention includes a step of laminating a plurality of alloy layers formed on a substrate together with the substrate. A motor comprising rare earth thick film magnet of the present invention is extremely small while obtaining high output.

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